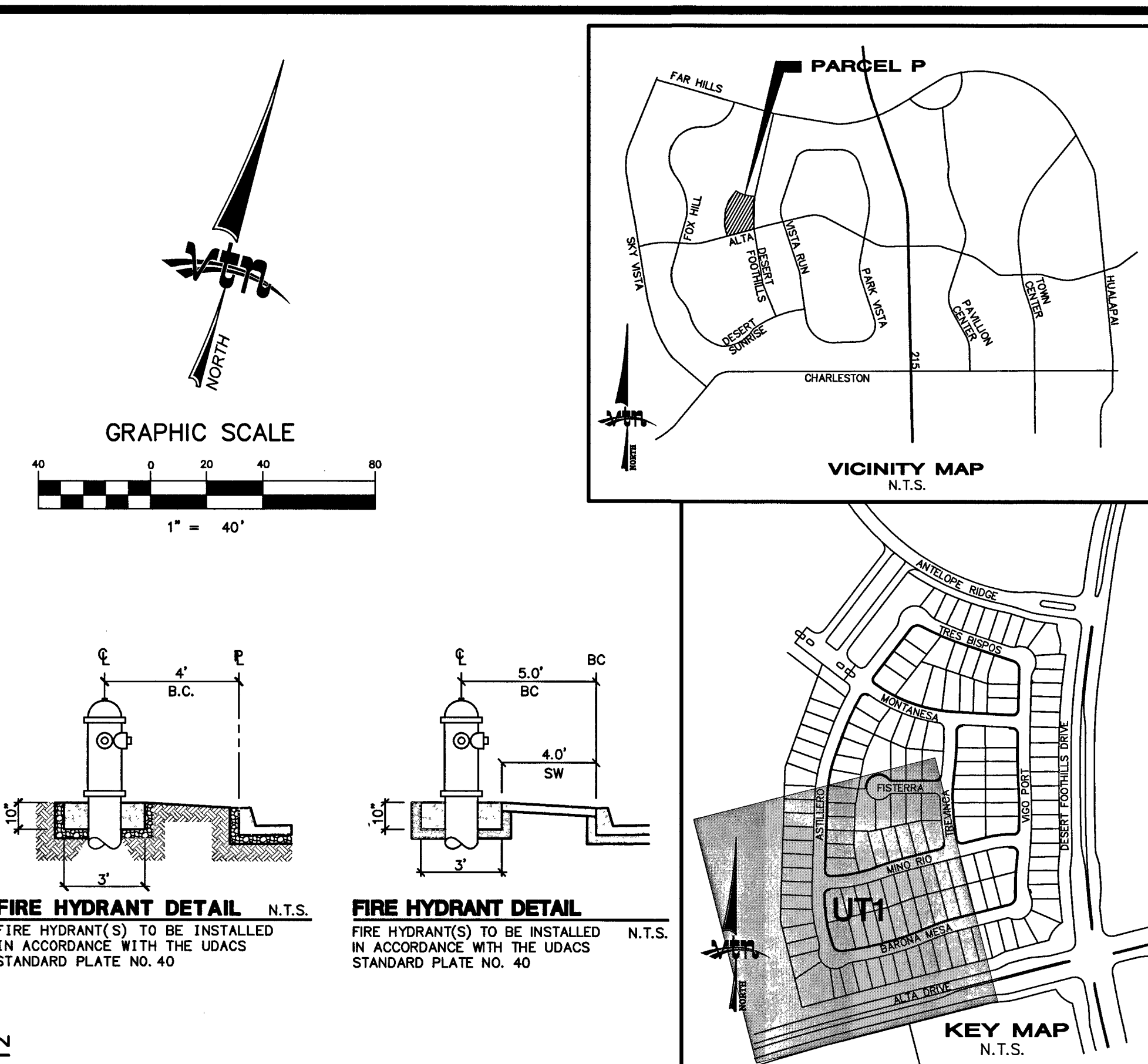
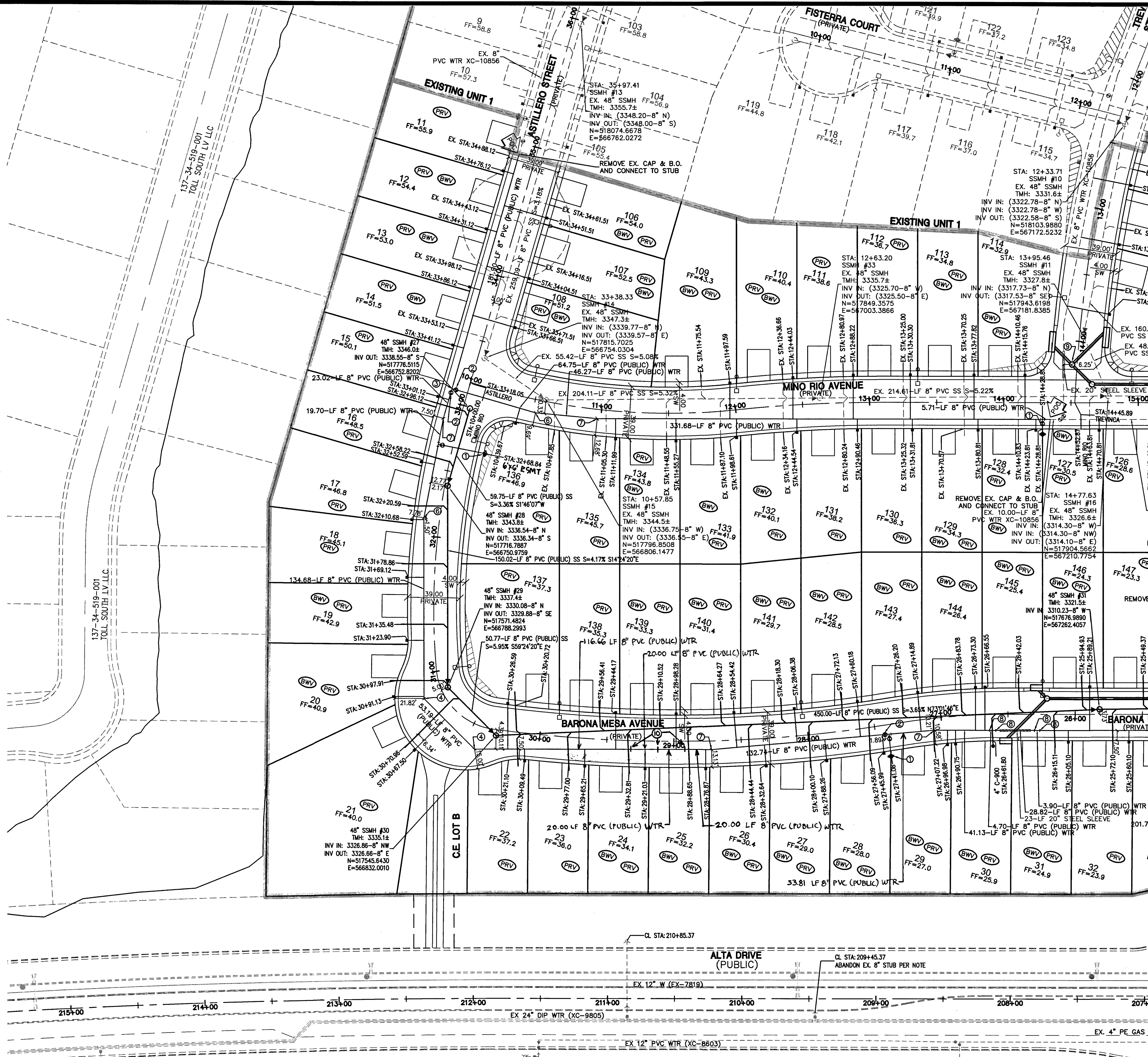




SEWER CONNECTION NOTE:
ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

ABANDONED VALVES CUT AND CAP
ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE. BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

FUTURE SERVICE LATERALS AND METERS
INSTALLATION OF SERVICE LATERALS (1" TO 2") FOR FUTURE LOTS SHALL BE INSTALLED PER THE UDACS PLATE 2 OR 4. IF ANY OF THE SERVICE LATERALS TO BE INSTALLED FOR FUTURE LOTS ARE INCORRECTLY LOCATED OR ARE NOT USED FOR ANY REASON WHEN THE LOTS ARE DEVELOPED, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE.

FOR ALL DRY UTILITY CROSSINGS
- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION - ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPAIRED FROM THE MAIN TO THE ANGLE METER STOP.

FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: <3600 SQ. FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQ. FT.
BUILDING HEIGHT: 27'
NUMBER OF STORIES: 2
TYPE OF CONSTRUCTION: V
OCCUPANCY: SER
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO
REVIEWED BY: K.M.H. 8/3/15
DATE:

- WATER**
- 1. FIRE HYDRANT ASSEMBLY (INCLUDES 8"x6" TEE, 8"OV & HYDRANT) PER UDACS PLT. 39 & 40
 - 2. 8" GATE VALVE PER UDACS PLT. 30 & 39
 - 3. 8"x8" TEE PER UDACS PLT. 31
 - 4. 8" 45° BEND PER UDACS PLT. 31
 - 5. 8" 22-1/2° BEND PER UDACS PLT. 31
 - 6. 8" 11-1/4° BEND PER UDACS PLT. 31
 - 7. 8" 5° BEND WITH RESTRAINED JOINTS
 - 8. 45° VERT BEND PER UDACS PLT. 31
 - 9. 3/4" IRRIGATION METER W/1" RPPA PER UDACS PLT. 4 & 8
 - 10. 3/4" RESIDENTIAL METER PER UDACS PLT. 2
 - 11. PRESSURE REDUCING VALVE (PRIVATE)
 - 12. DRIVEWAY LOCATION (SCHEMATIC ONLY)
- SEWER**
- 1. STANDARD MANHOLE PER SD-1A & SD-1B
 - 2. 4" SEWER LATERALS PER SD-22
 - 3. 6"OV SEWER LATERALS PER SD-22
 - 4. 8" SEWER MAIN PER SD-16
 - 5. BACK WATER VALVE (PRIVATE)
 - 6. STORM DRAIN MANHOLE WILL BE INSTALLED IN ACCORDANCE WITH DCSWS, USE FULL-STRENGTH GROUT, AND WATER TIGHT JOINTS USING AGENCY-APPROVED SEALS AT MANHOLE SECTIONS AND GRADE RINGS
 - 7. 8" 1" MAX VERT. BEND PER UDACS SEC. 2.07
- NOTE:**
VERIFY AND LOCATE ALL EXISTING UTILITIES WITHIN THE PROJECT WORK AREA.
- NOTE: REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"**
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE READING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENTS(S) TO ALLOW THE DISTRICT DIRECT & 124-127 IN SARASOTA UNIT 3 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

UTILITY CROSSING NOTE:
ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR PORTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

SERVICE LATERALS
SERVICE LATERALS FOR LOTS 38-44, 83-88, & 124-127 IN SARASOTA UNIT 3 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.

NOTE
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 15

NOTE
CONTRACTOR TO INSTALL ELASTOMETRIC JOINT SEALANT ON ALL JOINTS OF SS OR SD MANHOLES CLOSER THAN 10 FT OF WATER LINES.

DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

Call before you Dig
Avoid cutting underground utility lines at your own risk.
1-800-227-2600

Call before you Overhead
Avoid overhead power line contact. It's costly.
1-702-432-5300
LAS VEGAS AREA CONSTRUCTION TRAFFIC SYSTEM

APPROVALS:
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 9/8/15 PROJECT #123718
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
H #58945

PROJECT BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDSB)
CITY OF LAS VEGAS BENCHMARK: 5LV09-34N66 2008 ADJUSTMENT (UPDATED 5/24/10) NAVDSB ELEVATION: 1007.197 METERS (3304.45 FEET)
RIVET AND PLATE IN TOP OF CURB AT THE NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA.

BASIS OF BEARINGS
NORTH 89°46'49" EAST - BEING THE BEARING OF THE NORTH LINE OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY THAT PARCEL MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN FILE 118 OF PARCEL MAPS, AT PAGE 100.

PRV NOTE:
LOTS: ALL LOTS
ALL LOTS MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 200 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

ENGINEER DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CITY OF LAS VEGAS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550 FAX (702) 362-2597 WEB WWW.VTNV.COM
CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS

RYLAND HOMES
8825 WEST RUSSELL ROAD, SUITE 200
LAS VEGAS, NV 89148
(702) 360-7500

UTILITY PLAN 1
SUMMERLIN VILLAGE 23B
PARCEL P-SARASOTA
UNIT 3

REVISION

NO.	DATE	BY	REVISION
1	8/3/15	UT1	11 OF 22 SHEETS
2			DRAWING NO.
3			107Y5011-3